

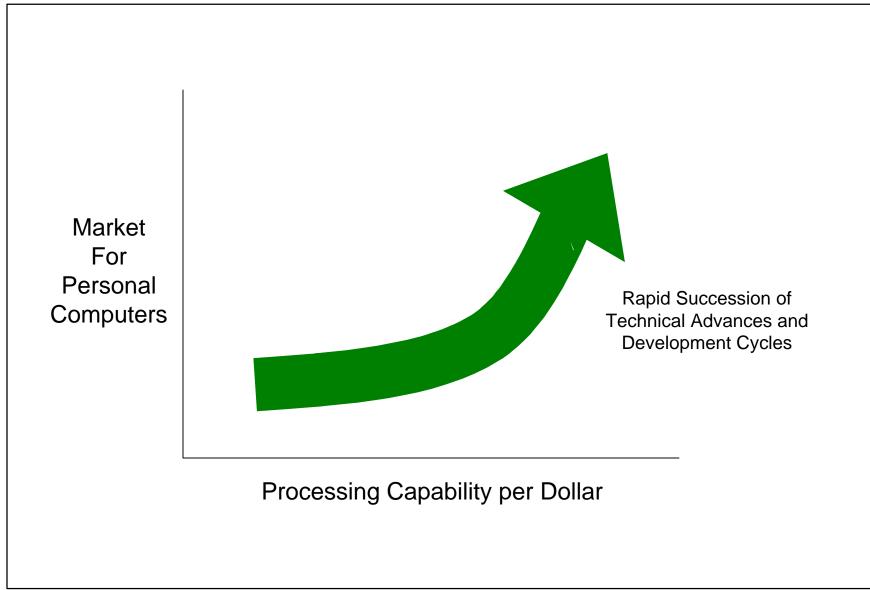
SA0005-001

SPACE ACCESS® LLC

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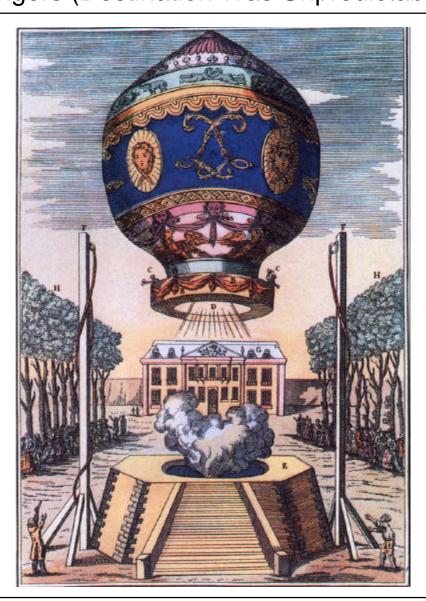
Growth of Personal Computer Industry



SA004196-AA-02-SW-E (2) Figure 2

Montgolfier Brothers: First to Fly Passengers (Destination Was Unpredictable)



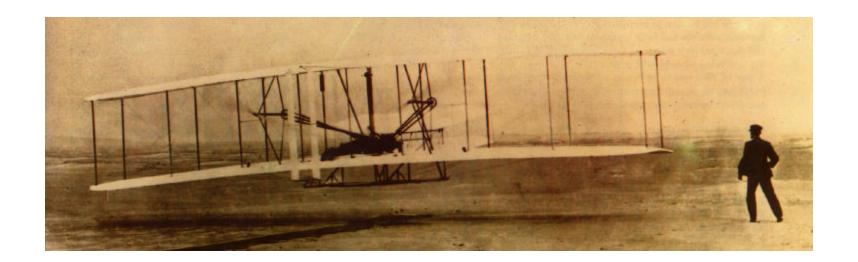


1783

Wright Brothers:

First to Demonstrate Controlled Flight





- Their flight demonstration made flying, as Wilbur Wright stated, "a thing to be regarded as a normal feature of the world's future."
- Initiated a rapid succession of aviation-related technological innovations and development cycles.

1903

de Havilland Comet: First to Offer "Jetliner" Service





Compared to first scheduled international passenger service in 1919:

- Reduced ticket prices by a factor of 20
- Reduced en route travel time by a factor of 5

1952

Lack of Passenger-Oriented Improvements Since 1960 is Impeding Industry Growth



- Seating Accommodations Similar
- En route Travel Time Same
- Ticket Price Driven up by High Cost of Owning and Operating Subsonic Jetliners (e.g., after adjusting for inflation and normalizing by number of seats available per aircraft, purchase price of new jetliners has doubled since 1960).

SA004196-AA-02-SW-E (6) Figure 6



Aerospatiale/BAC Concorde

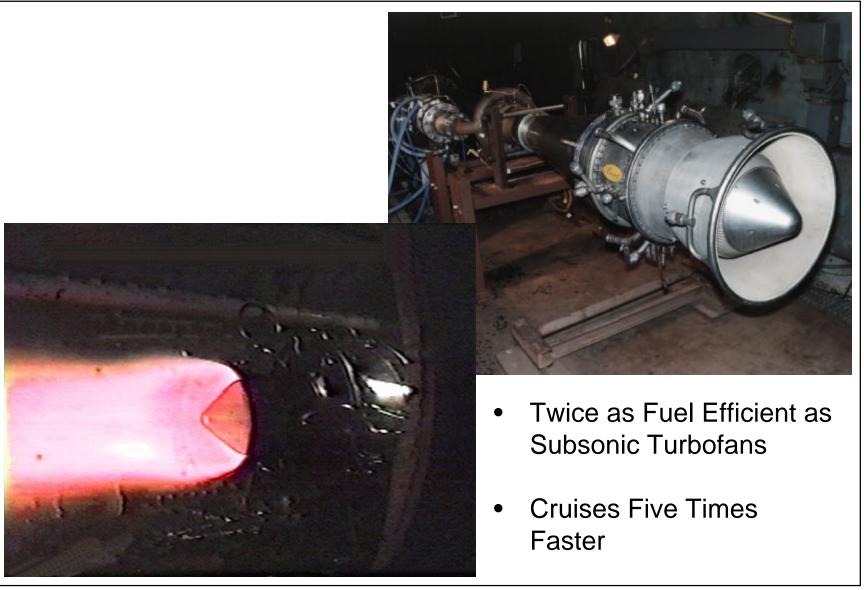


- Faster But Much Less Fuel Efficient
- High Cost of Tickets Benefits Only Upper Echelon of Passengers

SA004196-AA-02-SW-E (7) Figure 7



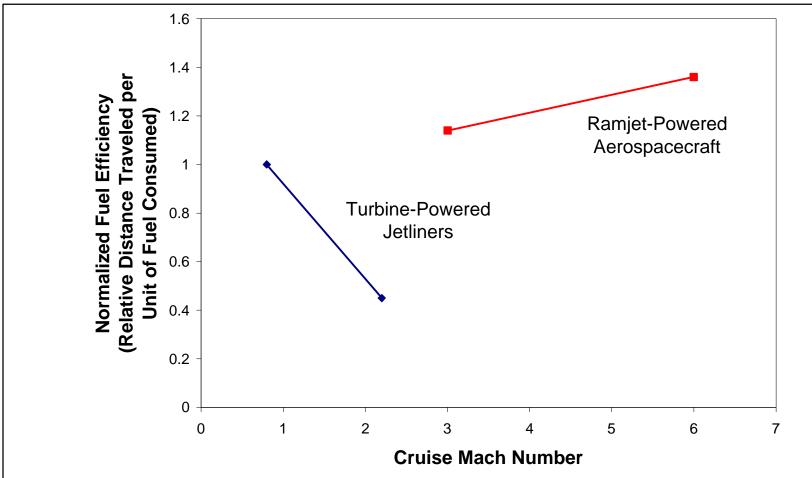
Ejector Ramjet Proof-of-Concept Testing Completed



SA004196-AA-02-SW-E (8) Figure 8



Ramjet-Powered Aerospacecraft Offers Quantum Improvements



- Significantly Reduced Operating Cost (More Fuel Efficient)
- Significantly Reduced Travel Times (Faster Cruise Speeds)

SA004196-AA-02-SW-E (9) Figure 9

Commercial Development Plan Rapid Succession of Space and Aviation Development Cycles



- Component Technologies are Already Proven
- Next Step: Develop Autonomous Hypersonic Aerospacecraft
- Promptly Introduce System into Revenue-Generating Operations by Providing Space Transportation Launch Services
- Use Flight Experience to Build Database for Certification as "Commercial Transport"
- Inaugurate Economical, Hypersonic Commercial Aviation Services

SA004196-AA-02-SW-E (10) Figure 10

Rapid Technical Advances Predicated on Establishment of "Aerospaceworthiness" Standard



- Base "Aerospaceworthiness Standard" on a Combination of both:
 - FAA Licensing Criteria for Launch Vehicles
 - FAA Airworthiness Criteria for Transport Aircraft
- Allows Access to Aviation-Based Insurance Rates.

SA004196-AA-02-SW-E (11) Figure 11

Recommendation:



- Offer Similar Incentives as Those Provided to Assist in Financing "Surface" Transportation Infrastructure
- Use Transportation Infrastructure Finance and Innovation Act of 1998 (TIFIA) as a Model
- Benefits
 - Public Rewarded with Quantum Improvement in Transportation Costs, Elapsed Times, and Reliability
 - Re-establish Pre-eminence of U.S. Aviation Industry

SA004196-AA-02-SW-E (12) Figure 12

Vision on "The Future of Aviation: Is the Sky the Limit?"

- U.S. Government and Entrepreneurial Companies Such as SPACE ACCESS® Must Work Together to "Seamlessly Extend the U.S. Aviation Transportation Infrastructure Out into Space."
- Implement Financial Incentives to Make Hypersonic Transportation "a Thing to Be Regarded As a Normal Feature of the World's Future."

SA004196-AA-02-SW-E (13) Figure 13